

ABSTRACT OF THE DISCLOSURE

An electric power steering apparatus is disclosed which includes an electric motor having less cogging to thereby provide a comfortable steering feel. The electric motor includes an annular outer stator and an inner rotor positioned within the outer stator. The outer stator has circumferentially arranged stator windings of nine or a multiple of nine poles. The inner rotor has circumferentially arranged permanent magnets of eight poles. The permanent magnets are radially magnetized, and have N and S poles alternately arranged circumferentially. Three or a multiple of three poles of the stator windings are connected in series and driven by three-phase electric power.

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